

A1

PAGE 1 OF 1

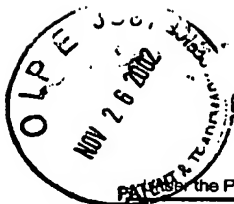
<b>INFORMATION DISCLOSURE CITATION</b> <i>(Use several sheets if necessary)</i>				Atty. Docket No.		Serial No.	
				KAK-004		PCT/IP99/04084	
				Applicant			
				Hiroaki KITANO et al.			
Filing Date				Group		2129	
December 20, 2001				<del>Unassigned</del>			
<b>U.S. PATENT DOCUMENTS</b>							
*Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate
<b>FOREIGN PATENT DOCUMENTS</b>							
		Document Number	Date	Country	Class	Subclass	Translation
							Yes No
OFR	A1	90/115683	10/1990	WO			x
<b>OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Page, Etc.)</b>							
OFR	A2	Tetsushi YATA et al., "Kakura Markov Model to Identeki Algorithm ni yoru NDA hairitsu no Signal Pattern Chuushitsu", Vol. 37, No.6, pp.1117-1129, Transactions of Information Processing Society of Japan (IPSI) (06/1996)					
OFR	A3	John Yen et al., "A Hybrid Approach to Modeling Metabolic Systems using a Genetic Algorithm and Simplex Method", Vol. 28, No. 2, pp.173-191, IEEE TRANSACTIONS ON SYSTEMS, MAN, AND CYBERNETICS PART B: CYBERNETICS (04/1998)					
<b>EXAMINER</b>				<b>DATE CONSIDERED</b>			
/Omar Fernandez Rivas/				10/23/2006			
*Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.							

Form PTO-FB-A820  
(also form PTO-1449)

Patent and Trademark Office-U.S. DEPARTMENT OF COMMERCE

DC033234

A2



PTO/SB/08A (10-01)

Approved for use through 10/31/2002. OMB 0651-0031

U. S. Patent and Trademark Office: U. S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  <i>(use as many sheets as necessary)</i>			<b>Complete if Known</b>		
			Application Number	10/018,571	
			Filing Date	December 20, 2001	
			First Named Inventor	Hiroaki Kitano	
			Art Unit	N/A	
			Examiner Name	Not Yet Assigned Omar Fernandez	
Sheet	1	of	1	Attorney Docket Number	KAK-0004

RECEIVED

NOV 29 2002

Technology Center 2100

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>4</sup>
		Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known)				

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See attached Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the application number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
OFR	B1	Noda, K. et al., "Finding Genetic Network From Experiments by Weighted Network Model," Genome Informatics Workshop, Volume 9, Pages 141-140, Japanese Society for Bioinformatics (December 10-11, 1998)	
OFR	B2	Akutsu et al., "Identification of Genetic Networks From a Small Number of Gene Expression Patterns Under the Boolean Network Model," Proceedings: Pacific Symposium on Biocomputing, Stanford Medical Informatics (January 4-9, 1999)	
OFR	B3	Morohashi et al., "Identifying Gene Regulatory Networks from Time Series Expression Data by in silico Sampling and Screening," Advances in Artificial Life. Proceedings of the 5th European Conference on Artificial Life, Pages 477-486 (September 13-17, 1999)	

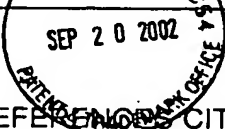
\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached.

Examiner Signature	/Omar Fernandez Rivas/	Date Considered	10/23/2006
--------------------	------------------------	-----------------	------------

A3

Sheet 1 of

FORM PTO-1449		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. KAK-004	SERIAL NO. 10/018,571
LIST OF REFERENCES CITED BY APPLICANT  (Use several sheets if necessary)			APPLICANT KITANA et al.	
			FILING DATE 12/20/01	GROUP 2129 <del>2152</del>

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NO.	DATE	NAME	CLASS	SUB- CLASS	FILING DATE
OFR	B1	5,140,530	8/92	Guha et al.			

## FOREIGN PATENT DOCUMENTS

		DOCUMENT NO.	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION YES NO PART.		
OFR	B2	2881711	02/99	JAPAN				X	
OFR	B3	WO98/30722	07/98	WIPO					

## OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, Etc.)

OFR	B4	T. Yada et al., "Signal Pattern Extraction from DNA Sequences Using Hidden Markov Model and Genetic Algorithm," Transactions of Information Processing Society of Japan, Vol. 37, No. 6, Pages 1117 through 1129, Information Processing Society of Japan (June 1996).
OFR	B5	T. Akutsu et al., "A Learning Theory for Identifying Gene Regulatory Networks," 32 <sup>nd</sup> Artificial Intelligence Fundamental Theory Study Group Material, pages 37-42, Japanese Society for Artificial Intelligence (March 1998).
OFR	B6	D. Tominaga et al., "Design of Canonical Model Describing Complex Nonlinear Dynamics," Computer Applications in Biotechnology, pages 85-90, IFAC (1998).
OFR	B7	T. Yada et al., "Generation of Hidden Markov Model Describing Complex Motif in DNA Sequences," Transactions of Information Processing Society of Japan, Vol. 40, No. 2, Information Processing Society of Japan (February 1999).
OFR	B8	T. Akutsu, "Inference Algorithm in Gene Networks," Suri-Kagaku (Mathematical and Physical Science, Vol. 37, No. 6 (No. 432), pages 40-46, Science (June 1999).
OFR	B9	H. Kitano, "Trial toward System Biology," Suri-Kagaku (Mathematical and Physical Science, Vol. 37, No. 6 (No. 432), pages 54-60, Science (June 1999).
OFR	B10	T. Akutsu et al., "Inferring Genetic Network Using Linear Programming," Proceedings of the 13 <sup>th</sup> Annual Conference of JSAI, 1999, pages 328-329, Japanese Society of Artificial Intelligence (June 1999).

EXAMINER /Omar Fernandez Rivas/	DATE CONSIDERED 10/23/2006
<p>*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.</p>	